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TENT COOPERATIO

From the

INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

To:

JOSEPH S. TRIPOLI C/O THOMSON LICENSING INC. TWO INDEPENDENCE WAY, SUITE #200 PRINCETON, NJ 08540

NOTIFICATION OF TRANSMITTAL OF INTERNATIONAL PRELIMINARY REPORT ON PATAENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Rule 71.1)

Date of mailing (day/month/year)

U8 APR 2005

Applicant's or agent's file reference

PU020487

International filing date (day/month/year)

Priority date (day/month/year)

IMPORTANT NOTIFICATION

PCT/US03/36413

13 November 2003 (13.11.2003)

04 December 2002 (04.12.2002)

Applicant

THOMSON LICENSING S.A.

International application No.

- The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary report on patentability and its annexes, if any, established on the international application.
- 2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
- 3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.

## 4. REMINDER

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices)(Article 39(1))(see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary report on patentability. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

The applicant's attention is drawn to Article 33(5), which provides that the criteria of novelty, inventive step and industrial applicability described in Article 33(2) to (4) merely serve the purposes of international preliminary examination and that "any Contracting State may apply additional or different criteria for the purposes of deciding whether, in that State, the claimed invention is patentable or not" (see also Article 27(5)). Such additional criteria may relate, for example, to exemptions from patentability, requirements for enabling disclosure, clarity and support for the claims.

Name and mailing address of the IPEA/ US

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Commissioner for Patents

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Form PCT/IPEA/416 (January 2004)



## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant' s or agent' s file reference PU020487	FOR FURTHER ACT	TION	See Form PCT/IPEA/416	
International application No.	International filing date (a	lay/month/year)	Priority date (day/month/year)	
PCT/US03/36413	13 November 2003 (13.11	1.2003)	04 December 2002 (04.12.2002)	
International Patent Classification (IPC)	or national classification and	d IPC		
IPC(7): H04B 7/12, 11/02, 11/04 and U	S C1.: 375/240.01, 240.12,	240.16; 348/590, 699,	700	
Applicant			·	
THOMSON LICENSING S.A.				
This report is the internal     Examining Authority under			shed by this International Preliminary according to Article 36.	
2. This REPORT consists of	a total of 4 sheets, incl	uding this cover shee	et.	
3. This report is also accomp	panied by ANNEXES, co	mprising:		
a. (sent to the applica	ant and to the Internation	al Bureau) a total of	sheets, as follows:	
sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).				
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.				
			dicate type and number of electronic	
carrier(s))		(		
, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).				
4. This report contains indic	ations relating to the follo	owing items:		
Box No. I B	asis of the report			
Box No. II Pi	riority			
· —	on-establishment of opini	on with regard to no	velty, inventive step and industrial	
· —	ack of unity of invention			
_ <del></del>	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step of industrial applicability; citations and explanations supporting such statement			
Box No. VI C	ertain documents cited	<del>-</del>		
Box No. VII C	ertain defects in the inter	national application		
Box No. VIII C	ertain observations on the	e international applic	ation	
Date of submission of the demand		Date of completion	of this report	
01 July 2004 (01.07.2004)		Q1 April 2005 (01.04	.2005)	
Name and mailing address of the IPEA/ US		Authorized officer		
Mail Stop PCT, Attn: IPEA/US Commissioner for Patents		Chris Kelley	hen d. Ward	
P.O. Box 1450 Alexandria, Virginia 22313-1450		()		
Facsimile No. (703) 305-3230		Pelephone No. 571-2	272-7331	



Internation plication No.
PCT/US03/36413

Box No	. I B	asis of the report
		to the language, this report is based on the international application in the language in which it was otherwise indicated under this item.
	This rewhich	eport is based on translations from the original language into the following language, is the language of a translation furnished for the purposes of:
	i	nternational search (under Rules 12.3 and 23.1(b))
		publication of the international application (under Rule 12.4)
		nternational preliminary examination (under Rules 55.2 and/or 55.3)
furnis	shed to	to the <b>elements</b> of the international application, this report is based on (replacement sheets which have been the receiving Office in response to an invitation under Article 14 are referred to in this report as "o riginally filed" unnexed to this report):
$\boxtimes$	the int	ernational application as originally filed/furnished
$\boxtimes$	the de	scription:
		1-18 as originally filed/furnished
		NONE received by this Authority on
	pages'	NONE received by this Authority on
$\boxtimes$	the cla	ims:
<del></del>		as originally filed/furnished
		* NONE as amended (together with any statement) under Article 19
		NONE received by this Authority on
	pages'	NONE received by this Authority on
$\boxtimes$	the dr	awings:
		1/1-3/3 as originally filed/furnished
		NONE received by this Authority on
		NONE received by this Authority on
	a sequ	ence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.
3.	The a	mendments have resulted in the cancellation of:
		the description, pages
		the claims, Nos
	一	the drawings, sheets/figs
	Ħ	the sequence listing (specify):
	님	
	Ш	any table(s) related to the sequence listing (specify):
4.	This resince the	eport has been established as if (some of) the amendments annexed to this report and listed below had not been made, ney have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).
		the description, pages
		the claims, Nos
	Ħ	the drawings, sheets/figs
	H	the sequence listing (specify):
	Ш	any table(s) related to the sequence listing (specify):
* If iten	1 4 ann	lies, some or all of those sheets may be marked "superseded."

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

Internation	plication No.
PCT/US03/364	113

Box No.	ш	Non-establishment of opin	ion with regard to novelty, inventive step and industrial applicability		
The que	stions trially	whether the claimed invention applicable have not been ex	on appears to be novel, to involve an inventive step (to be non obvious), or to amined in respect of:		
	the er	ntire international application			
	claim	s Nos. <u>9-25</u>			
	becau	se:	·		
	the said international application, or the said claim Nos relate to the following subject matter which not require an international preliminary examination (specify):				
			•		
		-	gs (indicate particular elements below) or said claims Nos are so unclear		
	that n	o meaningful opinion could	be formed (specify):		
		laims, or said claims Nos.	are so inadequately supported by the description that no meaningful		
	opin	on could be formed.			
$\boxtimes$	no in	ternational search report has	been established for said claims Nos. 9-25		
		ucleotide and/or amino acid dministrative Instructions in	sequence listing does not comply with the standard provided for in Annex C of that:		
	the w	ritten form	has not been furnished		
		[	does not comply with the standard		
	the co	omputer readable form	has not been furnished		
		Į.	does not comply with the standard		
	the ta	bles related to the nucleotide ly with the technical require	and/or amino acid sequence listing, if in computer readable form only, do not ments provided for in Annex C-bis of the Administrative Instructions.		
	See S	upplemental Box for further	details.		



Internation plication No. PCT/US03950413

Box No. V Reasoned statement under Arti applicability; citations and expl	cle 35(2) wit lanations sup		rial
1. Statement		4 % * * * * * * * * * * * * * * * * * *	
Novelty (N)	Claims	2-8	YES
, , , , , , , , , , , , , , , , , , ,	Claims	1	NO
	<b>~</b> 1.		VEC
Inventive Step (IS)		NONE 1-8	
	Ciaims	1-0	
Industrial Applicability (IA)	Claims	NONE	YES
	Claims	1-8	NO
Claims 1-8 NO  2. Citations and Explanations (Rule 70.7)  Claim 1 lacks novelty under PCT Article 33(2) as being anticipated by US Patent 6,570,923 to Saunders et al. As shown in Figure 8, Saunders teaches a video encoder for encoding video signal data for at least one cross-fade picture disposed temporally between a fade-out start picture. Wideo A) and a fade-in picture. (Video B), which are used as reference pictures for coding the at least one cross-fade picture. The encoder comprises a reference picture weighting applicator (120) and a reference picture weighting factor unit (110) in signal communication with the reference picture weighting applicator for assigning weighting factors corresponding to each of the fade-out start picture and the fade-in end picture, respectively, for coding the at least one cross-fade picture (Col 4 Lines 40-Col 5 Lines 25).  Claims 2 and 4-6 lack an inventive step under PCT Article 33(3) as being obvious over Saunders in view of 'Fast Dissolve Operations For MPEG Video Contents' by Yoneyama et al.  In regards to claim 2, Saunders teaches the use of motion vectors to produce a cross-fade picture in MPEG-2 video streams (Col 1 Line 38, Col 6 Lines 20-35). Saunders further teaches the picture weighting applicator connected to an encoder (E2, Figure 8). Saunders does not specifically teach the use of a compensation unit for providing a motion compensated fade-out start or end picture responsive to the reference picture weighting factor unit. Yoneyama teaches the adjusting of motion vectors for use with a dissolve operation for MPEG-2 video (Sections 3-1 through 3-2, Figure 2). Yoneyama specifically teaches in Figure 2, the encoding process contains a motion compensation unit. It would have been obvious to employ the system of Saunders with the system of Yoneyama as both are similar systems for producing a dissolve effect in MPEG-2 video.  In regards to claim 4, Yoneyama further shows in Figure 2, the dissolve effect is performed on motion compensated reference frames.  In regards			